

Dylan Mumm

9.19.18

CPSC 3600

Lab 2

1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?
 - 1.1
 - 1.1
2. What languages (if any) does your browser indicate that it can accept to the server?
 - en-US, en
3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?
 - 10.167.16.34
 - 128.119.245.12
4. What is the status code returned from the server to your browser?
 - 200 OK
5. When was the HTML file that you are retrieving last modified at the server?
 - September 19th, 2018 at 5:59 GMT
6. How many bytes of content are being returned to your browser?
 - 540 (File data of 128 bytes)
7. By inspecting the raw data in the packet content window, do you see any headers within the data that are not displayed in the packet-listing window? If so, name one.
 - No
8. Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?
 - No
9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?
 - Yes, because it returned a 371 byte file with a 200 Status Code

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10. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE:" line in the HTTP GET? If so, what information follows the "IF-MODIFIED-SINCE:" header?

- Yes
- If modified since September 19th, 2018 5:59:01 GMT

11. What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

- 304 Not Modified
- No, there was no text file sent

12. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill of Rights?

- 1
- 18

13. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?

- 24

14. What is the status code and phrase in the response?

- 200
- OK

15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

- 4

16. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

- 3
- /wireshark-labs/HTTP-wireshark-file4.html, pearson.png, /~kurose/cover_5th_ed.jpg

17. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.

- Yes, serially. GETs would not be sent until the responses to the previous one was received

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18. What is the server's response (status code and phrase) in response to the initial HTTP GET message from your browser?

- 401 Unauthorized

19. When your browser's sends the HTTP GET message for the second time, what new field is included in the HTTP GET message?

- Authorization